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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,951	04/21/2004	Karl-Heinz Altmann	4-30707C	7150
1095 7	95 7590 11/24/2004		EXAMINER	
NOVARTIS			DESAI, RITA J	
CORPORATE INTELLECTUAL PROPERTY ONE HEALTH PLAZA 430/2			ART UNIT	PAPER NUMBER
EAST HANOVER, NJ 07936-1080			1625	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
_	10/828,951	ALTMANN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Rita J. Desai	1625				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) 'days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ☑ This	0.15					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-17</u> is/are pending in the application.						
4a) Of the above claim(s) <u>11,12 and 14</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.	6) Claim(s) <u>1-4</u> is/are rejected.					
7)⊠ Claim(s) <u>5-10,13 and 15-17</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>4/21/2004</u>. 	Paper No(s)/Mail D					
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DETAILED ACTION

Priority

The priority to US 10/180, 289, US 09/850,434 and PCT/EP99/08545 is being acknowledged.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 5-10,13, 15, 16 in part drawn to compounds and simple pharmaceutical compositions of formula I wherein R1 is an aryl, R2 is an imidazoyl, R3-R6 are H, halogen or alkyl, X is NR8, classified in class 548, subclass 335.1,346.1.
- II. Claims 5-16 in part, drawn to compounds and simple pharmaceutical compositions of formula I wherein R2 is a pyridyl, R1 is an aryl and R3-R6 areH, alkyl or halogens, X is NR8, classified in class 546 and various subclasses.
- III. Claim 5-16 in part, drawn to compounds and simple pharmaceutical compositions of formula I wherein R2 is a quinolyl R1 is an aryl and R3-R6 areH, alkyl or halogens, X is NR8, classified in class 546 and various subclasses.
- IV. Claims 5-16 in part, drawn to compounds and simple pharmaceutical compositions wherein R2 is different from the ones given above classified in various classes and various subclasses. A further election of a single disclosed species is required. This group may be subject to further restriction.
- V. Claims 1-4, drawn to method of treating diseases, classified in class 514 and various subclasses.
- VI. Claim 17, drawn to a process of making these compounds, classified in class 546, 548 and various subclasses.

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The inventions are distinct, each from the other because of the following reasons:

Inventions I- IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have a different core hence different effects and different functions.

Inventions I-IV and V are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case there are several other drugs that can be used to treat the diseases mentioned.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

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If the compounds are found to be allowable then the method of treating and process of making groups V and VI will be rejoined limited to the same scope as the allowable compounds.

During a telephone conversation with Ms. Lydia McNally on 11/19/04 a provisional election was made with traverse to prosecute the invention of Group I, claims 5-10, 13, 15, 16 in part drawn to compounds and simple pharmaceutical compositions of formula I wherein R1 is an aryl, R2 is an imidazoyl, R3-R6 are H, halogen or alkyl, classified in class 548, subclass 335.1,346.1.

Affirmation of this election must be made by applicant in replying to this Office action.

Claims 1-4 and 17 withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

If applicant 's traverse on the grounds that the inventions are not patentably distinct, applicants should submit evidence or identify such evidence now of record showing the groups to be obvious variants or clearly admit on the record that this is the case. In either instance if the

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examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 USC 103 of the other invention.

The group I compounds have been found to be free from prior art and hence the method of treating and process of making limited to the same scope is being rejoined.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1 and 2 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims are drawn to a USE claim and is non-statutory.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-4 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for compounds 4, 5 and 7 to have some VEGF activity, does not reasonably provide enablement for all the compounds to treat the various diseases which are neoplastic, retinopathy related and age —related macular degeneration. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims.

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In re Wands, 858 F.2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988).

There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is "undue". These factors include 1) the breadth of the claims, 2) the nature of the invention, 3) the state of the prior art, 4) the level of one of ordinary skill, 5) the level of predictability in the art, 6) the amount of direction provided by the inventor, 7) the existence of working examples, and 8) the quantity of experimentation needed to make or use the invention based on the content of the disclosure.

The state of the prior art is very specific to the structure of the compounds and activity.

e.g. is caffeine and theophyline. The difference is the presence of one methyl group and activity is so different.

Applicants 3 examples 4, 5 and 7 are all drawn to pyridyl compounds.

There is no guidance that other hetero groups such as imidazolyl in the R2 positions would have the same activity.

There is very little predictability in the art that an imidazoyl would be equivalent to a pyridyl in that position and still retain its activity.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 2 provides for the use of the claimed compounds, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process

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applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claims 1 and 2 are is rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Claims 3 and 4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims recite treating neoplastic diseases or retinopathy or age- related mascular degeneration is a reach through claim, since there are several diseases which could be discovered later are due to retinopathy or mascular degeneration or neoplastic.

Also drugs do not have an umbrella efficacy to treat numerous diseases. Drugs act on receptor sites, these receptor sites are also different at different locations.

Applicants can over come this by inserting the specific disease enabled in the specifications.

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Conclusion

The claims 5-10, 13, 15, 16 and 17 are allowable, limited to the elected group.

The claim 1-4 are rejected.

Claims 11, 12 and 14 are drawn to non -elected invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita J. Desai whose telephone number is 571-272-0684. The examiner can normally be reached on Monday - Friday, 9:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

R.D. November 22, 2004 Rita J. Desai **Primary Examiner**

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